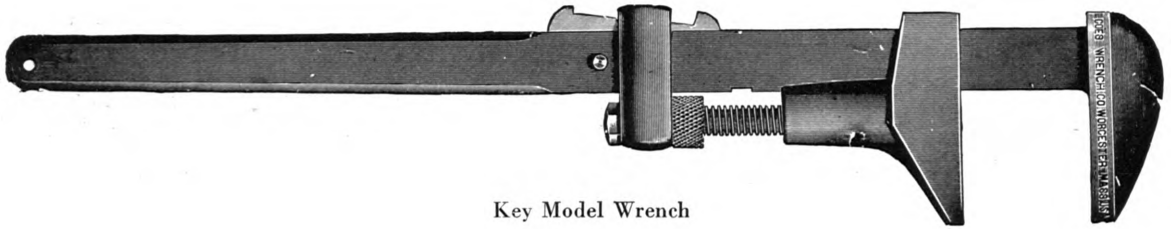


# Coes Wrenches



Key Model Wrench

## Key Model Wrench

The Coes Key Model Wrench, shown in cut on this page, is the finest engine room tool on the market today. It is made of heavy steel forgings, fully hardened, and carefully tested to assure freedom from flaws.

This wrench, which was designed to fill the gap between the 21-inch wrench and the heavy spanner wrench for large work, will not batter and jam a nut as will the chain wrench. It will not slip and make trouble, and will take any nut, square or hexagonal, within its opening capacity.

The key feature makes possible the setting of the jaw strap in two positions, thus assuring the jaws going into corners readily. The key cannot come off, and it holds the jaw strap rigidly.

The wrench is hardened by a special process and like all other "Coes" products is warranted free from mechanical defects.

The Coes Key Model Wrench is made in the following four sizes:

- 28 inches long, opens  $5\frac{1}{8}$  inches, weighs 19 lbs.
- 36 inches long, opens  $6\frac{1}{4}$  inches, weighs 28 lbs.
- 48 inches long, opens  $9\frac{1}{2}$  inches, weighs 62 lbs.
- \*72 inches long, opens  $12\frac{1}{4}$  inches, weighs 165 lbs.

\*Made on order only.

## Knife Handle Model Wrench

The Coes Knife Handle Model Wrench is a strong all-around serviceable wrench. Experiment and tests have enabled us to improve nearly every feature of the first and original Knife Handle Wrench. Tests have proved this wrench to be 10 to 15 per cent stronger than imitations and substitutes made by others.

Handle—Cast semi-steel frame, hard wood sides, secured at both ends by insertion under metal and riveted up under pressure. The soundest and strongest wood handle made.

Screw—Steel, hardened and in one piece. Imitations are in two and sometimes three parts.

Jaw—Semi-steel casting-hardened.

Bar—Steel, specially imported material fully hardened.

The Coes Knife Handle Model Wrench is made in the following sizes:

- 6 inches long, opens  $\frac{7}{8}$  inches, weighs 12 ozs.
- 8 inches long, opens  $1\frac{1}{4}$  inches, weighs  $1\frac{3}{8}$  lbs.
- 10 inches long, opens  $1\frac{5}{8}$  inches, weighs  $2\frac{3}{16}$  lbs.
- 12 inches long, opens  $2\frac{1}{4}$  inches, weighs  $3\frac{5}{16}$  lbs.
- 15 inches long, opens  $2\frac{1}{2}$  inches, weighs 5 lbs.
- 18 inches long, opens 3 inches, weighs  $6\frac{3}{4}$  lbs.
- 21 inches long, opens  $4\frac{1}{8}$  inches, weighs 9 lbs.

## Comparative Tests Prove Superiority

The strength of Coes Wrenches as compared to other wrenches on the market is shown by a typical test on a number of 12-inch wrenches made at the Harvard University Testing Laboratory. The wrenches tested were closed tight on a square block and pressure applied downward until the wrench set or rupture showed. The comparative testing strains required to permanently set the wrenches and the results were then noted as tabulated in the table below. It will be observed that in each case the Coes wrench was superior.

Load applied here



Stationary block placed in jaw

TEST OF 12-INCH WRENCHES.  
From Test Blanks of Harvard University Testing Laboratory

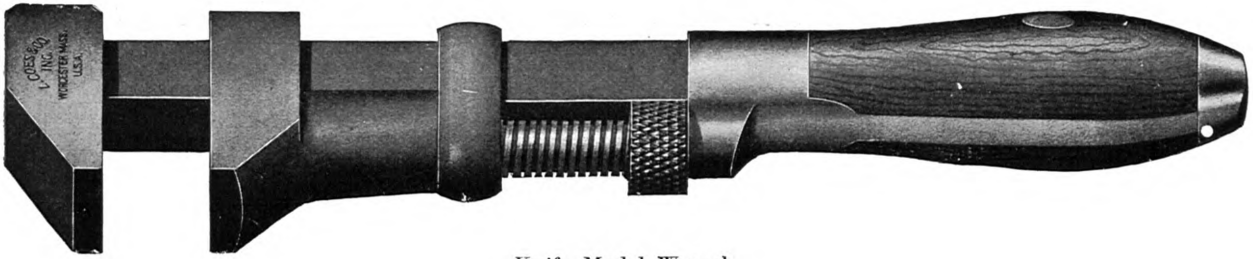
	Load	Result	Part Broken
12" K. H. Imitation	460 lbs.	Fell to pieces	Bar pulled from handle.
12" K. H. Imitation	1070 lbs.	Broken	Jaw broken, Bar bent.
"Railroad Special" 12" Steel Handle Imitation	1075 lbs.	Pulled apart	Handle shell forced off of bar.
12" K. H. Imitation	1190 lbs.	Broken	Jaw broken, thread in Jaw stripped, Jaw broken, Head bent back.
Coes Mechanics Model 12" Black	1365 lbs.	Crippled	Bar bent
Coes Genuine K. H. 12" Black	1410 lbs.	Crippled	Jaw bent, Bar set. Nothing broken.
Coes Steel Handle 12"	1790 lbs.	Crippled	Bar set so screw and jaw would not move. Nothing broken.

## Shipments

Besides the care taken to protect the users of Coes Wrenches by inspecting all goods 16 times during the process of manufacture and a guarantee of freedom from mechanical defects, additional pains are taken to prevent damage during shipment. Each wrench is oiled to prevent rust and wrapped up individually in paper and the package is tied and labeled with size and model. All goods are packed carefully and protected by lined shipping cases, and the cases are well strapped and clearly marked for identification.

COES WRENCH CO., WORCESTER, MASS.

# Coes Wrenches



Knife Model Wrench

## Manufacturing Facilities

The factories of the Coes Wrench Company, located at Worcester, Mass., are the largest in the world devoted exclusively to the manufacture of Screw Wrenches. These factories are equipped with the most complete and modern equipment which together with an efficient organization of skilled mechanics makes possible the consistent high quality of "Coes" Wrenches.

The excellent manufacturing facilities permit the filling of large orders promptly as well as the building up of large stocks for prompt deliveries, and a convenient location and excellent railroad connections assure quick shipments to all points.

## Quality

The high quality of the material used in all the "Coes" wrenches is the result of long and earnest experiment. The methods of manufacture have been continually improved with a view of subordinating the matter of selling price to the maintenance of highest quality. The result of this consistent policy is the production of wrenches that by every test made have proven to be higher enough in quality to more than offset any difference in cost.

As a single indication of the efforts made to assure the consistent high standard of quality, each wrench manufactured by the Coes Wrench Company is inspected eleven times before assembling, and five times after assembling.

## Important Features

"Coes" wrenches are designed for quick adjustment, severe and dependable service. When the "Coes" wrench grips a nut it holds. The firm square jaws will grasp a nut firmly from any angle and will not spread apart—the jaws remain square in service, there is no lost motion in them.

## Purpose of Design

Wrenches are used in damp places, in places where they are subjected to heat, for heavy work, for large work, and for ordinary machine work. The following models of the "Coes" wrenches are designed to fulfill the above requirements.

The Steel Handle Model, which is the strongest wrench made, was designed for very heavy work and for use in damp places and places where it is subjected to heat.

The Key Model was designed to fill the gap between the 21-inch and the heavy spanner wrench for large work.

The Knife Handle Model was designed to be a strong all-around serviceable wrench for machine work, etc.

## Steel Handle Model Wrench

The Coes Steel Handle Model Wrench, which is the strongest wrench made is particularly adapted for heavy work in damp places, for extra difficult service or where exposed to heat, water or insects.

This wrench has been tested and found 35 per cent stronger than any wrench made by competitors, and is 15 per cent stronger than the Coes Knife Handle Model, owing to the heavier construction.

Bar—Made of Steel fully hardened and cold swaged, is the stiffest bar of any wrench made.

Jaw—Made of extra heavy semi-steel and hardened.

Screw—Made of steel, fully hardened. In sizes 12 inches long and larger, the screw has a polished hardened ball race.

Ball—(In sizes 12 inches long and larger). Made of first quality standard bearing ball. Fully hardened.

Handle—Made of semi-steel casting. (Design and method patented). Internally supported and retained by cross riveting and by extension of bar through handle and riveting same.

The Coes Steel Handle Model Wrenches are made in the following sizes:

6 inches long, opens  $\frac{7}{8}$  inches, weighs 13 ozs.

8 inches long, opens  $1\frac{1}{4}$  inches, weighs  $1\frac{1}{2}$  lbs.

10 inches long, opens  $1\frac{11}{16}$  inches, weighs  $2\frac{5}{16}$  lbs.

12 inches long, opens  $2\frac{3}{8}$  inches, weighs  $3\frac{15}{16}$  lbs.

15 inches long, opens  $2\frac{5}{8}$  inches, weighs  $5\frac{1}{4}$  lbs.

18 inches long, opens 3 inches, weighs  $7\frac{3}{4}$  lbs.

21 inches long, opens  $4\frac{1}{8}$  inches, weighs 10 lbs.



Steel Handle Model

COES WRENCH CO., WORCESTER, MASS.